Title: A SCREENING METHOD FOR AN AGENT HAVING AN EFFECT ON A SPHINGOSINE KINASE SIGNALING PATHWAY
Inventors: Mathew VADAS et al.
Docket No.: 032989-0113

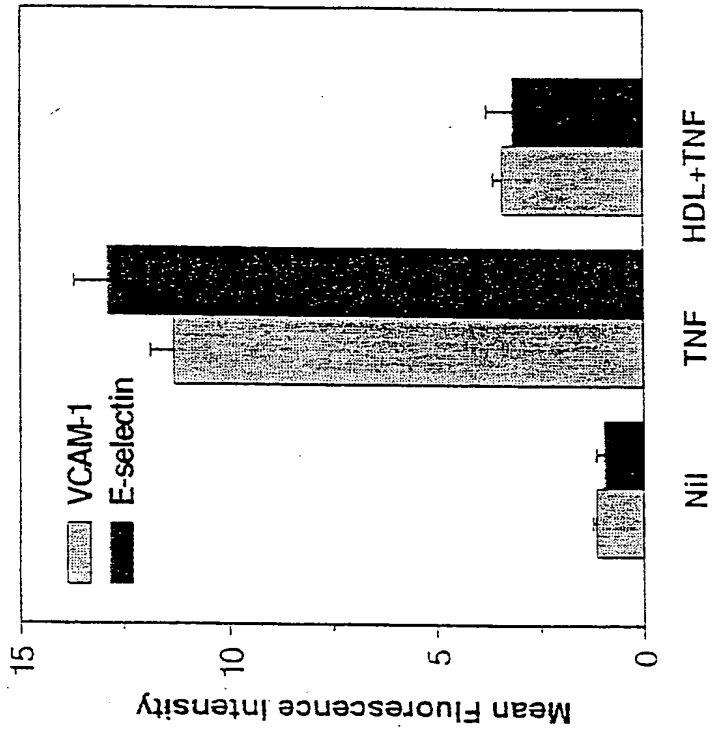


Fig.1

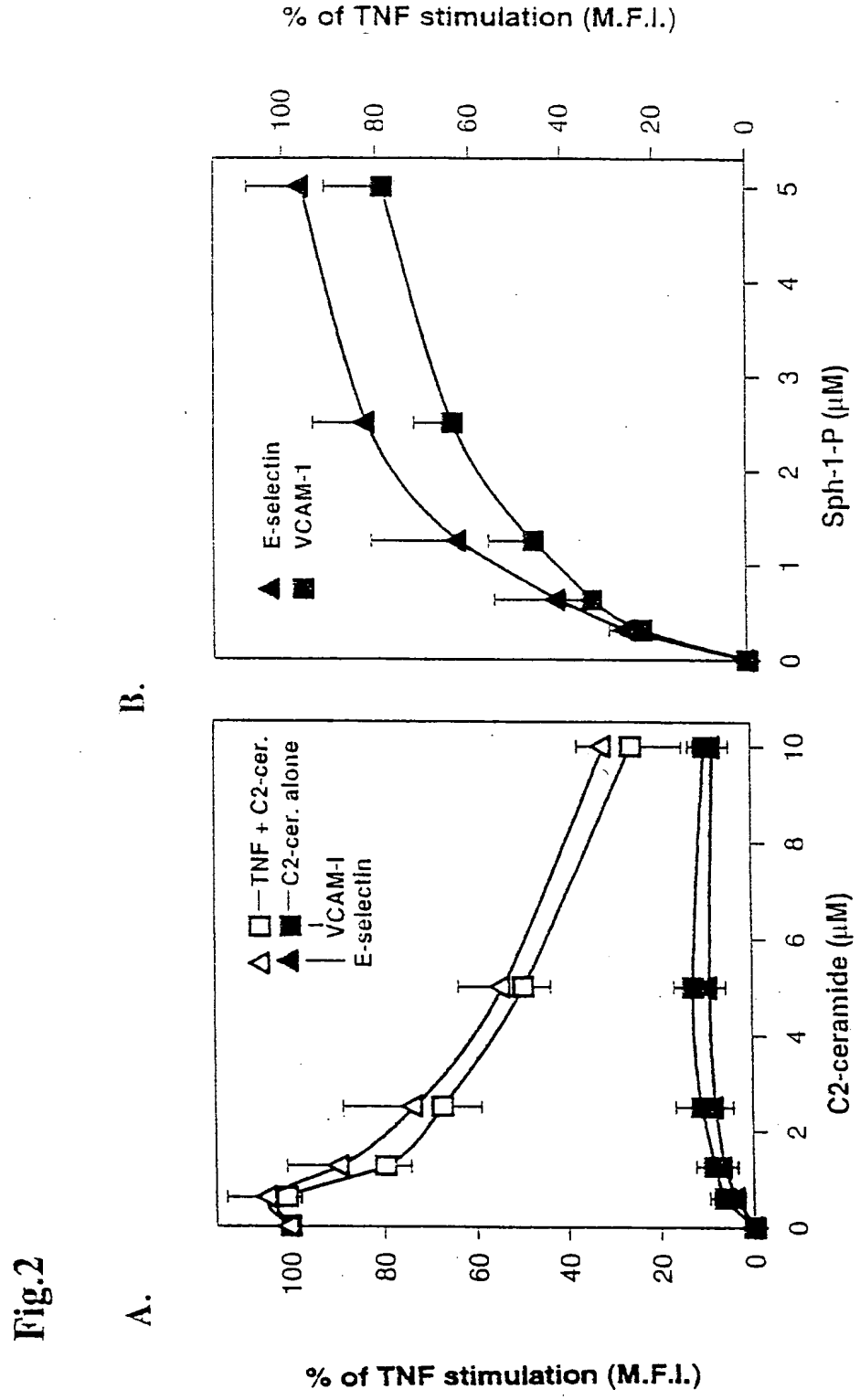
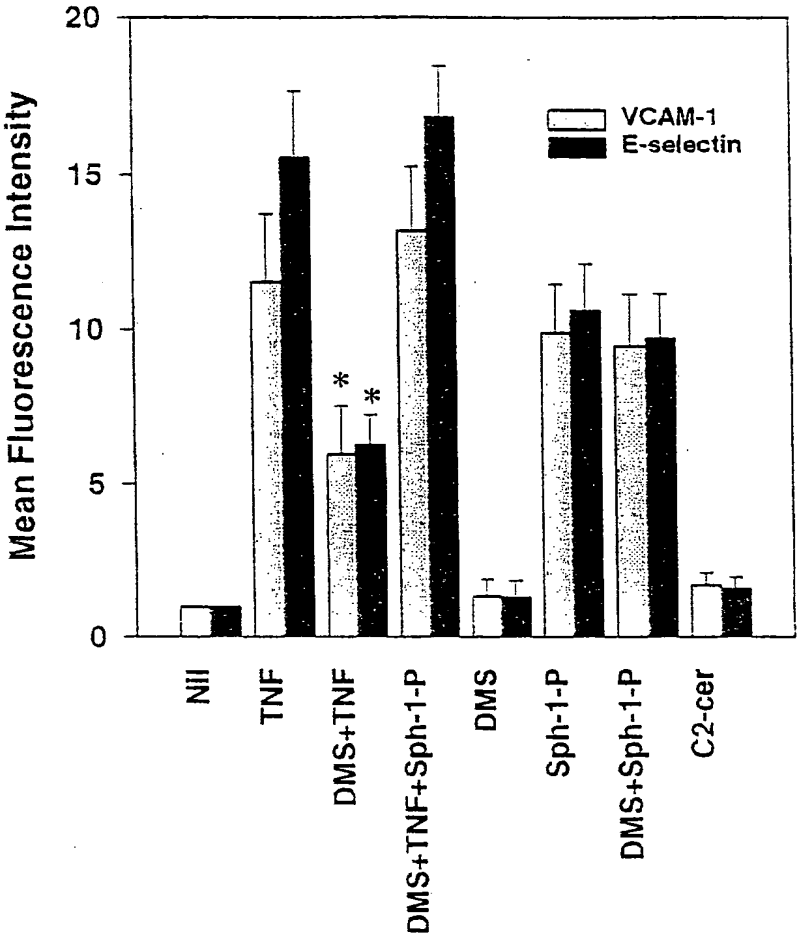

% of TNF stimulation (M.F.I.)
B.
E-selectin
VCAM-1
Sph-1-P (μM)
A.
TNF + C2-cer.
C2-cer. alone
VCAM-I
E-selectin
C2-ceramide (μM)
% of TNF stimulation (M.F.I.)

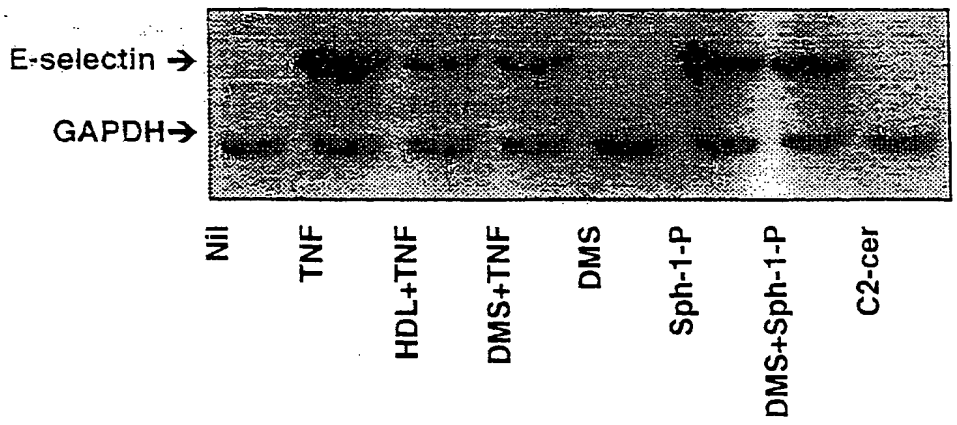
Fig.2

Fig.2

C.


Mean Fluorescence Intensity
20
15
10
5
0
VCAM-1
E-selectin
*
*
Nil
TNF
DMS+TNF
DMS+TNF+Sph-1-P
DMS
Sph-1-P
DMS+Sph-1-P
C2-cer

D.


E-selectin
GAPDH
Nil
TNF
HDL+TNF
DMS+TNF
DMS
Sph-1-P
DMS+Sph-1-P
C2-cer

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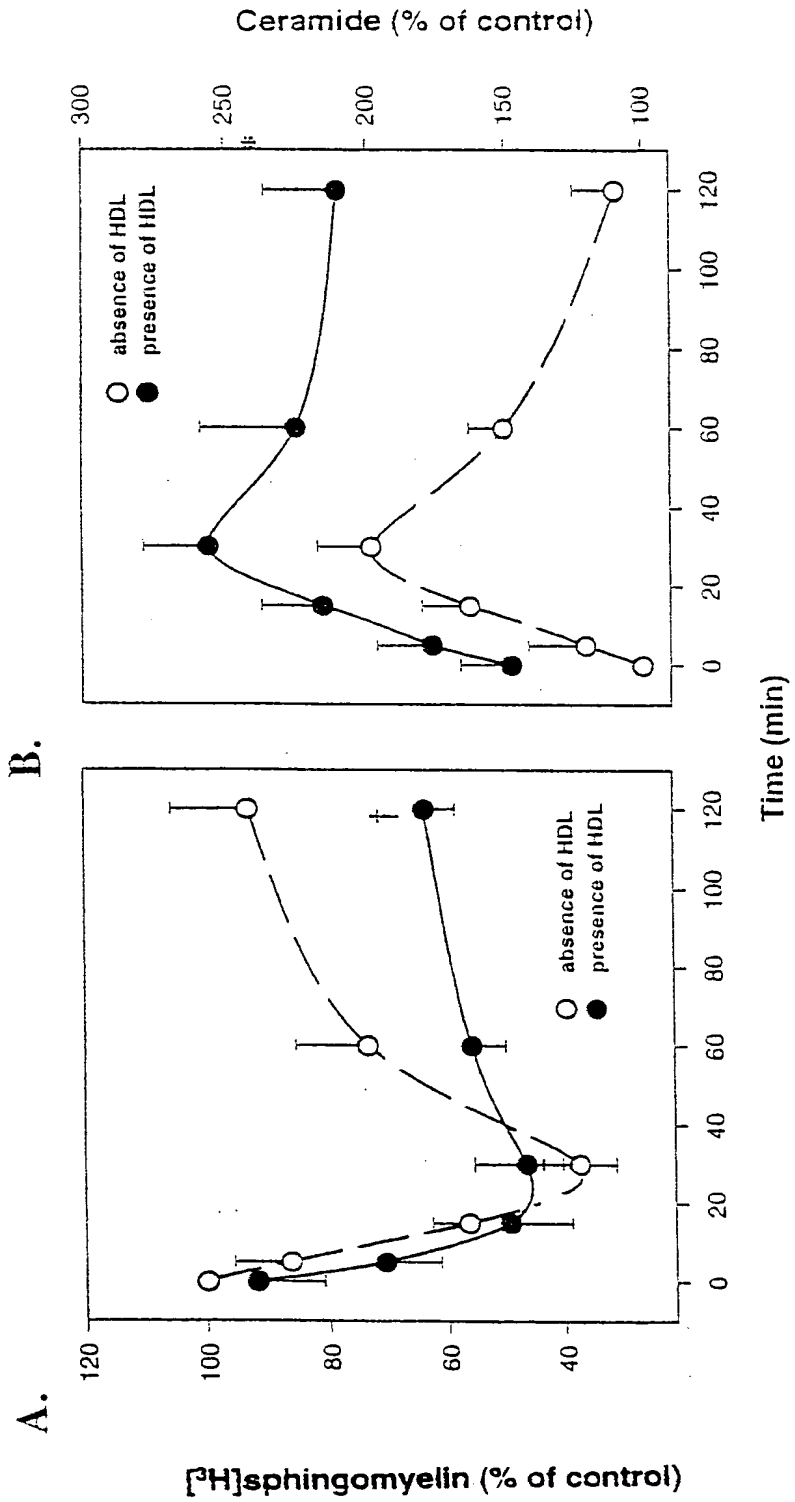

Fig.3

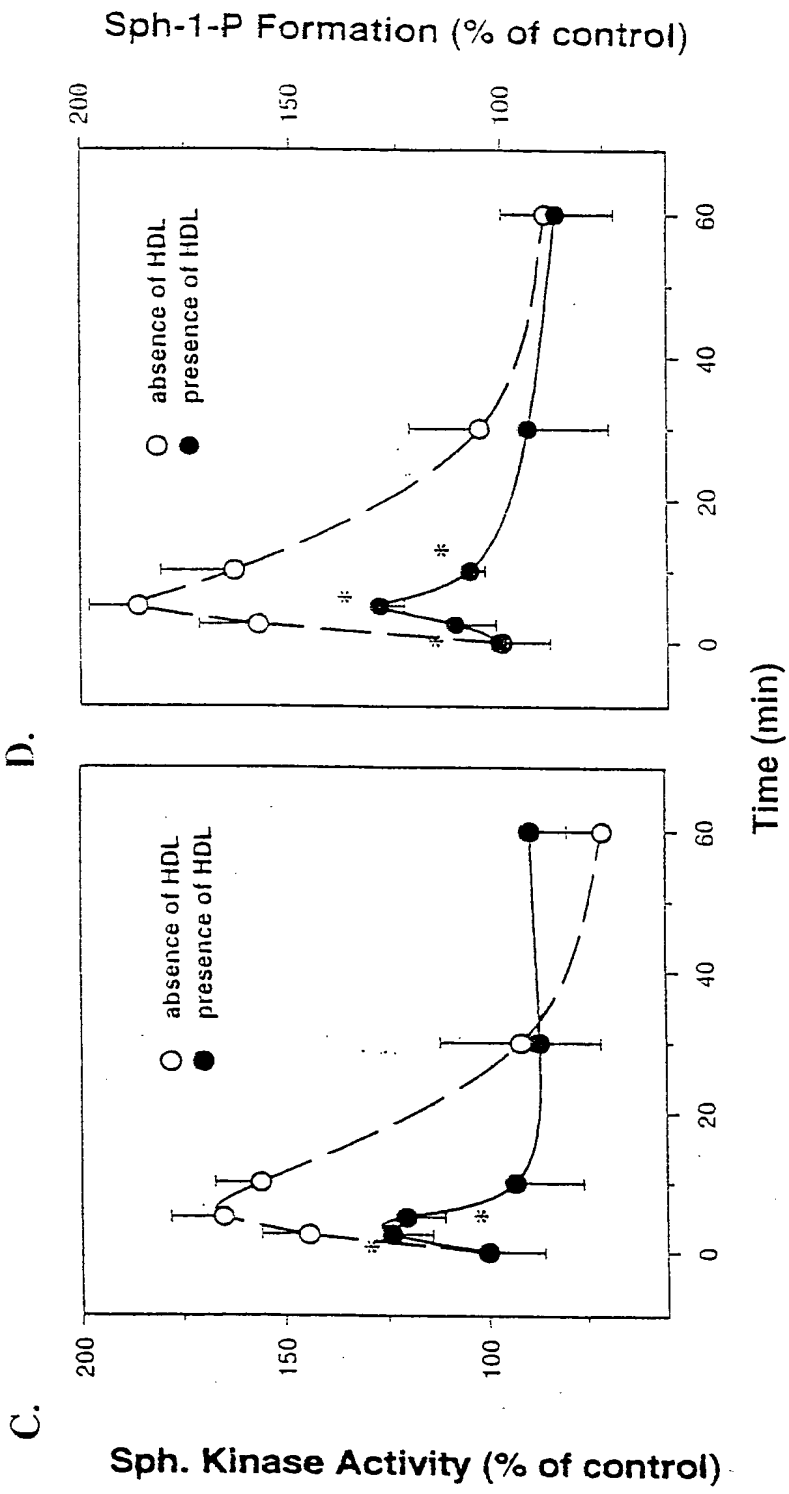
Sph-1-P Formation (% of control)
200
150
100
absence of HDL
presence of HDL
0
20
40
60
D.
Time (min)
C.
Sph. Kinase Activity (% of control)

Fig.3

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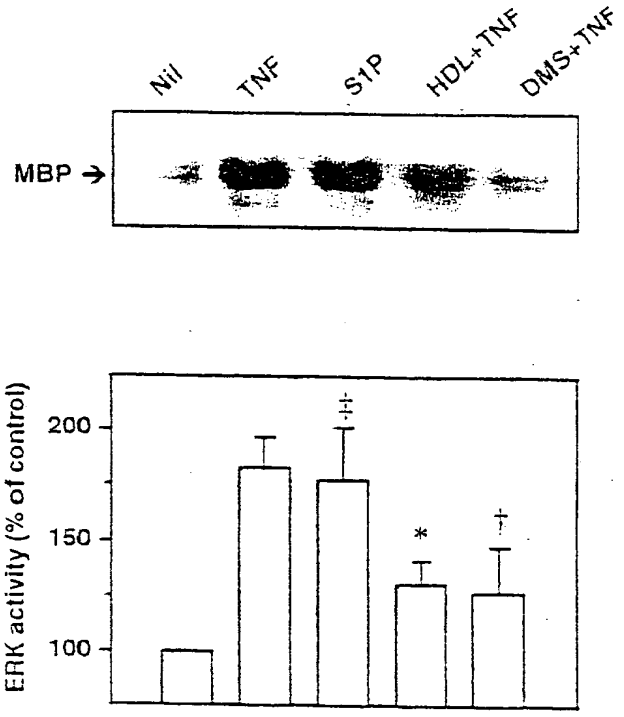
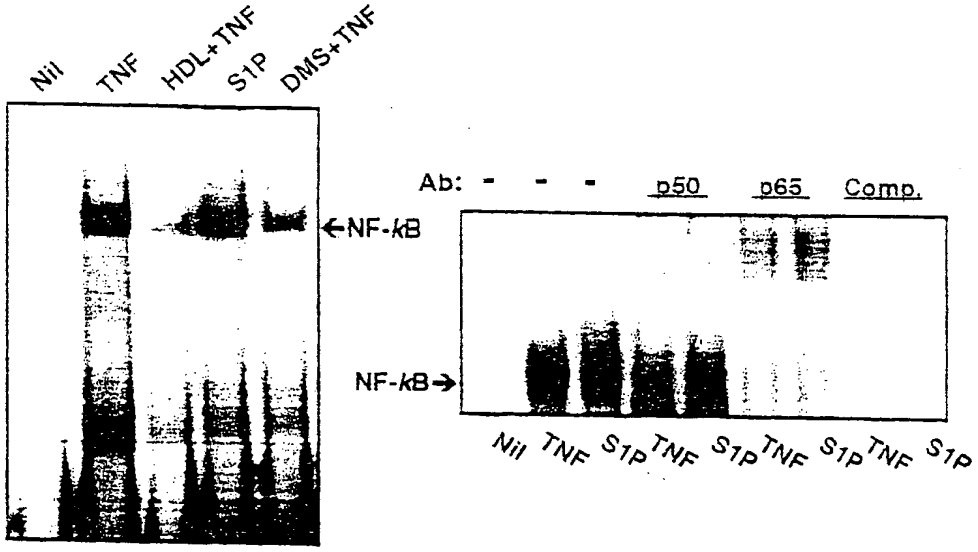
Fig. 4.

A.



B.



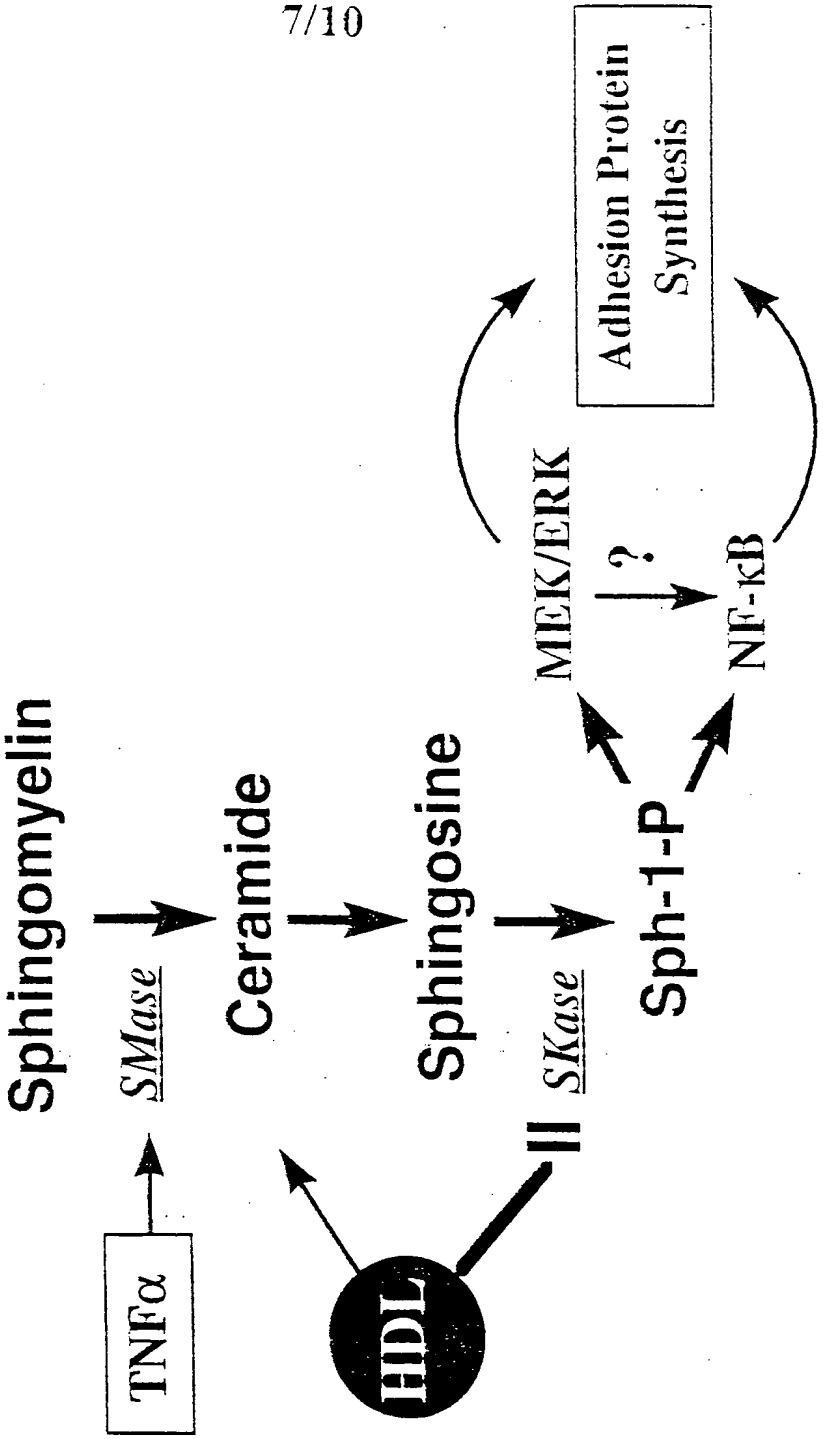

Sphingomyelin
SMase
Ceramide
Sphingosine
SKase
Sph-1-P
MEK/ERK
?
NF-κB
Adhesion Protein Synthesis
TNFα
HDL

Fig.5

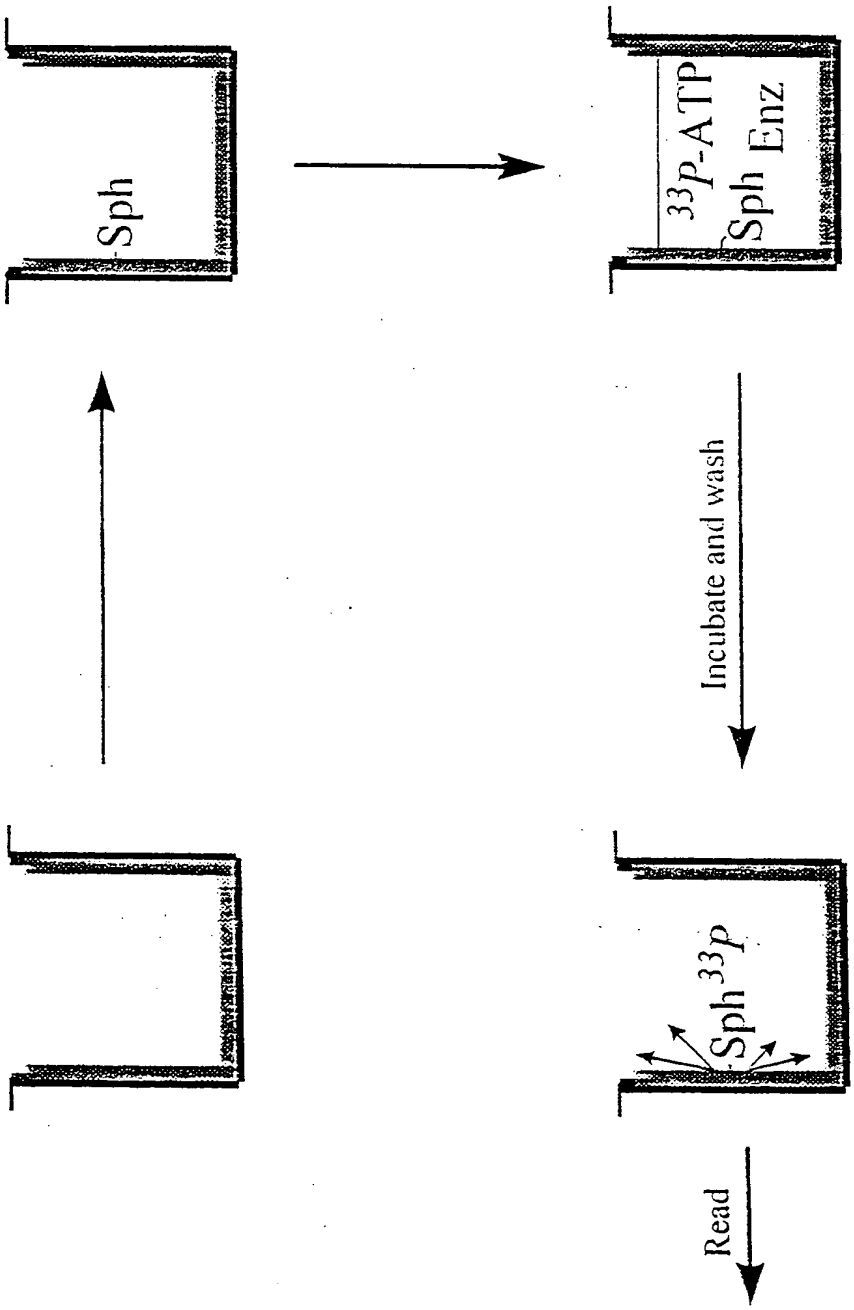


FIG 6

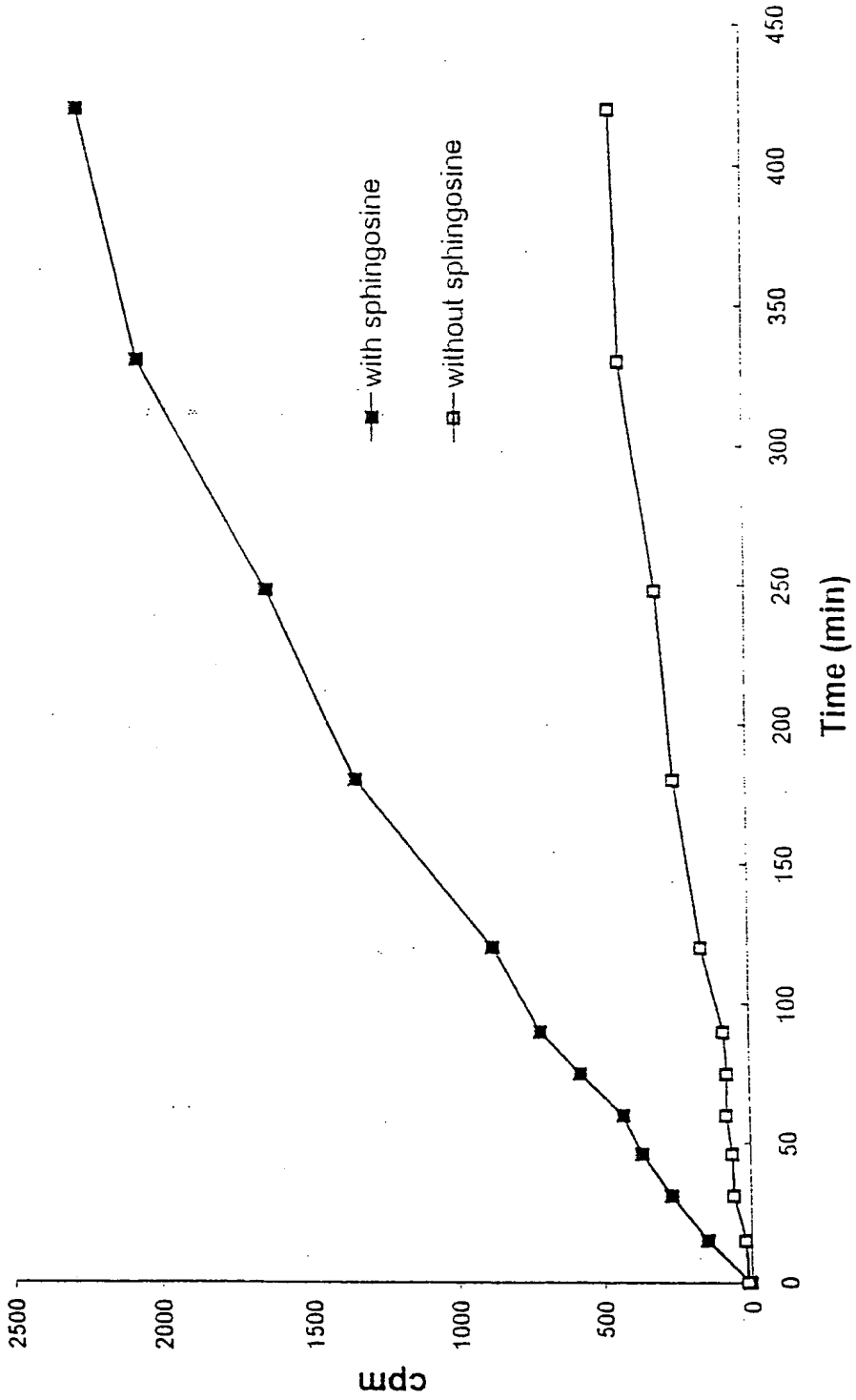

cpm
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
350
400
450
Time (min)
with sphingosine
without sphingosine

Fig. 7

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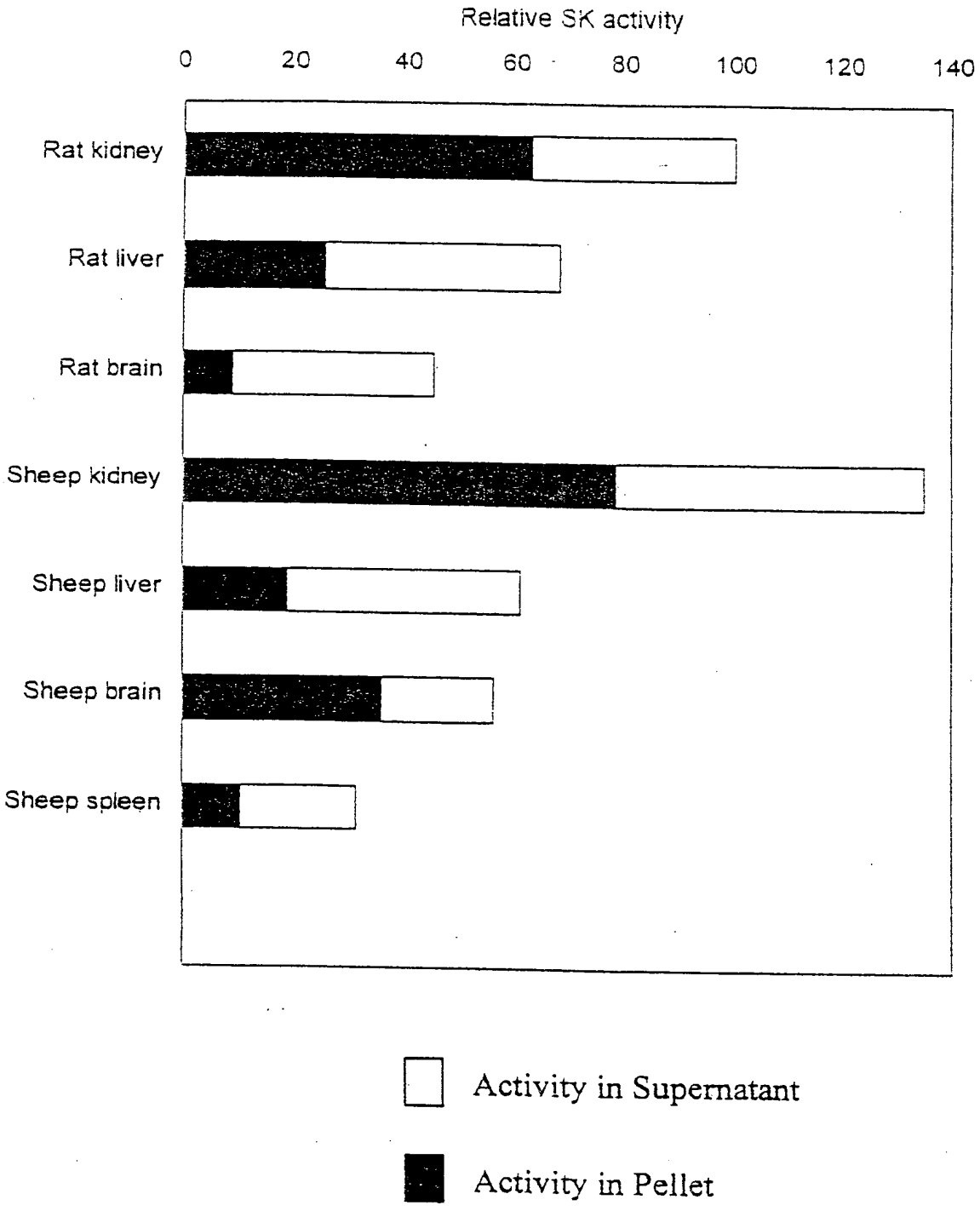
Fig. 8